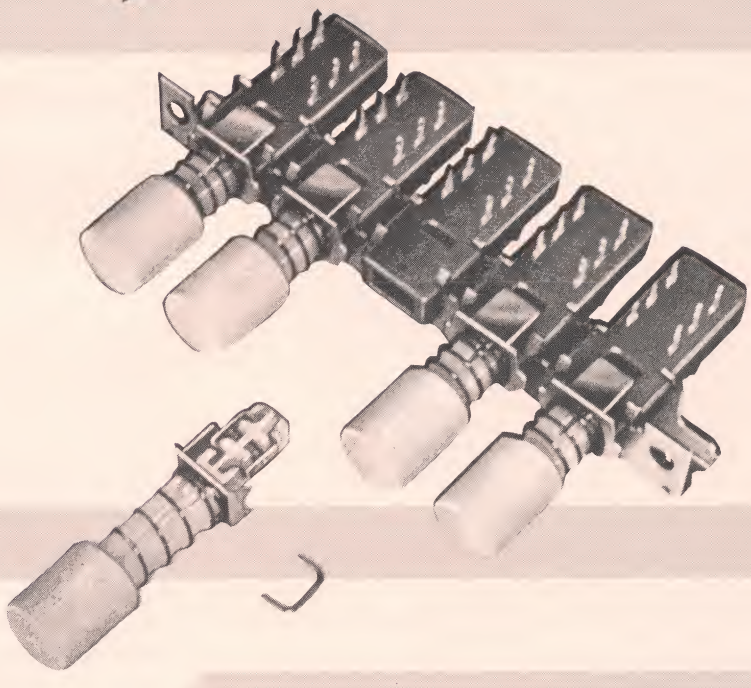
MINIATURE PUSH BUTTON SWITCHES

SERIES "D" AND "E"

PUSH-BUTTON SLIDERS REMOVABLE FROM THE FRONT!



OFFER INCREASED RELIABILITY AND A GOOD POINT FOR YOUR MAINTENANCE SERVICE

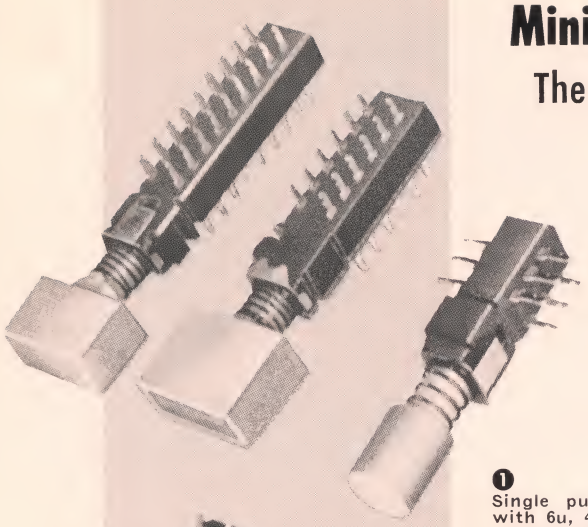
INTERNATIONAL ELECTRO EXCHANGE CORPORATION

6529 CAMBRIDGE STREET — MINNEAPOLIS, MINNESOTA 55426
TELEPHONE: (612) 929-9611

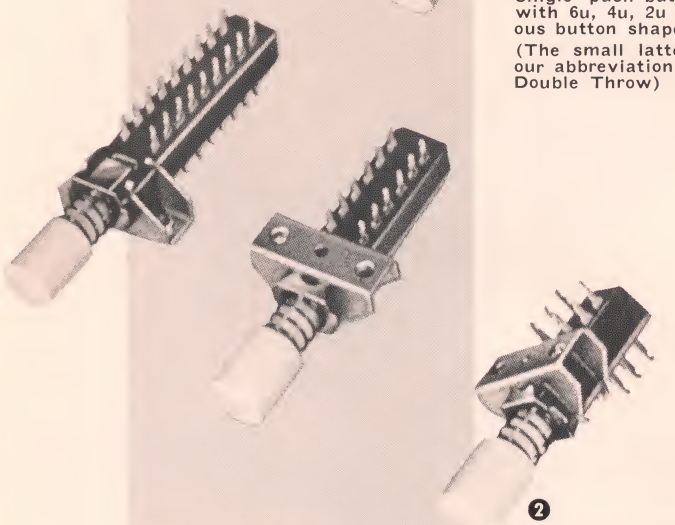
PRODUCTS OF RUDOLF SCHADOW KG

Miniature Push button Switches Series D and E

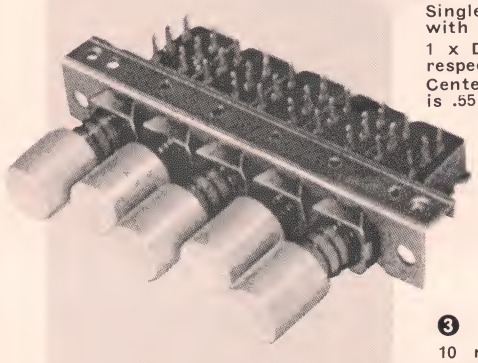
The push-button sliders can be removed from the front!



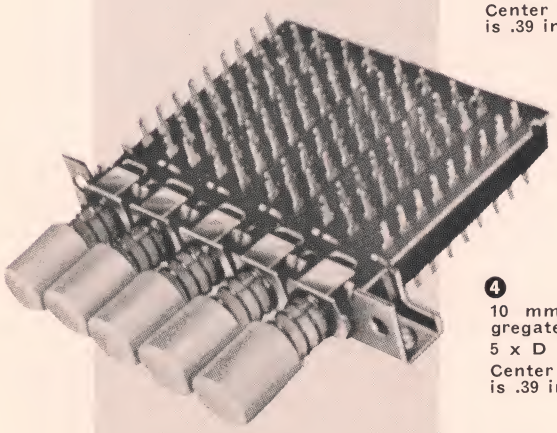
❶ Single push-button units with 6u, 4u, 2u and various button shapes
(The small latter "u" is our abbreviation for Poles Double Throw)



❷ Single push-button units with chassis:
1 x D-DG 6u, 4u and 2u respectively. Center to Center of mounting holes is .55 inches



❸ 10 mm push-button aggregate:
5 x D 10 DG 2u
Center to center spacing is .39 in.



❹ 10 mm push-button aggregate:
5 x D 10 DG 6u
Center to center spacing is .39 in.

We are herewith introducing a new line of switches which, after several years' development and preparation for production promise to be a hit like that of our Series M.

Series D and E incorporates specially small yet high-grade and inexpensive switches for use not only in radio engineering but also in commercial equipment. Our system of unit construction implemented in all series permits universal combinations and so opens up any potential applications.

Push-button sliders
removable from the front, that is in the direction of the push-button, since with the existing compact design this is the only side from which the mounted and wired switch is still accessible.

With one grip the spring catch is retracted with a second grip the stop bracket; then the slider unit complete with push-button, return spring and contact bridges can be taken out and cleaned or exchanged as required. Whilst this is done the remainder of the push-button aggregate continues to function undisturbed.

Your design and production management will be relieved of a nightmare!

Switches of this Series can be mounted in printed circuits and the contacts always remain accessible.

Your maintenance service will be able to breathe again!

The push-button switches can be repaired during fault-finding. Servicing of duplex systems, testing and measuring equipment is greatly simplified.

Contact System

This Series is equipped with a solid contact-bridge piece and an elastic element in the form of a helical compression spring. This can be dimensioned with great accuracy, and with high initial tension in the spring the contact pressure can easily be kept constant in production and is not appreciably reduced during the long life of the switch.

The "D" and "E" series are identical in design. The difference lies in the spacing between contacts which determines the maximum operating voltage. The "E" series has the greater spacing which is 20% more than the "D" series. The greater spacing also increases the depth dimension. The same mounting chassis is used for mounting the switch modules.

The complete encasement of the switch prevents the penetration of dust and foreign bodies (cut-off wire ends).

The solder tabs currently supplied have solder lugs at one side and printed circuit spikes, on the other. The spear tab which is illustrated is also available.

A double-row arrangement of contacts has the advantage that coils, trimmers and other components can be fixed between the contact units.

Mechanical System

The unit consists of the contact assembly with the plastic slider running in a continuous groove of the molded casing. This ensures a smooth movement of the push-buttons contrary to the arrangement in slots of stamped metal chassis.

The greater part of the mechanical system has been transferred inside the unit. Each of the four switch modules are identical in design and dimensions, except for the depth. The maximum overall depth of the contact case is as follows:

SERIES "D"	SERIES "E"
DPDT (2U) .9 In.	DPDT (2U) 1.1 In.
4PDT (4U) 1.3 In.	4PDT (4U) 1.55 In.
6PDT (6U) 1.7 In.	6PDT (6U) 2.05 In.
8PDT (8U) 2.1 In.	8PDT (8U) 2.55 In.

The characteristic feature of the units of Series D and E is that they contain everything that makes a functioning push-button switch **including an interchangeable slider with its contact bridges.**

They are supplied as impulse push-buttons (o.A.) or push-push-buttons (EE) as required. Single units of push-button switches can be mounted on a small chassis (Figure 2) which have 2 mounting holes.

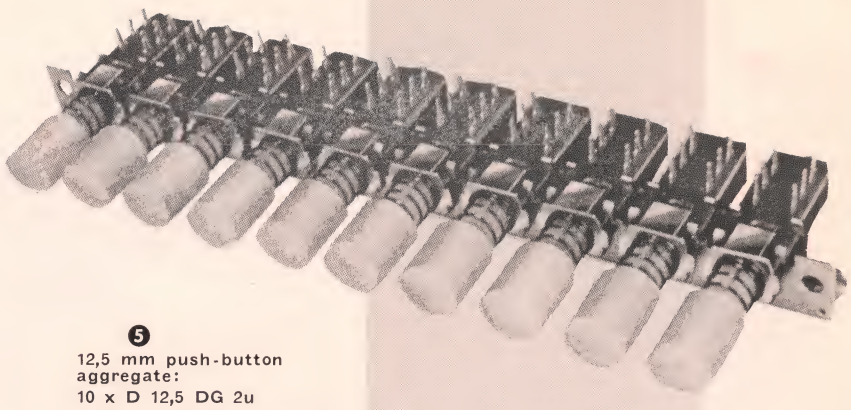
The units and single push-buttons are very suitable for remote control of switching operations. Facilities for connecting Bowden R.F. cables are available as an accessory.

Dimensional drawings on request.

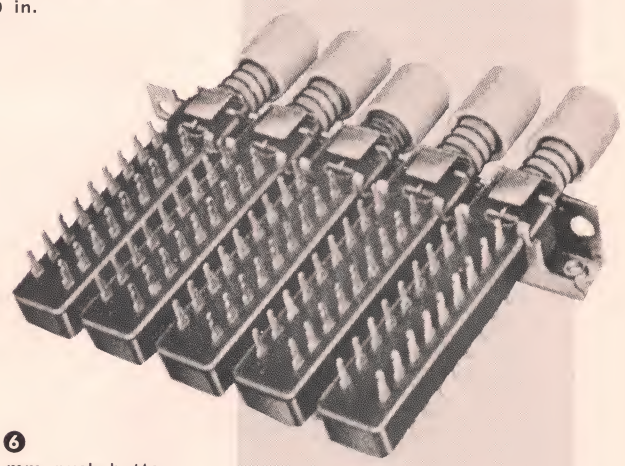
TYPE DESIGNATION AND CENTER TO CENTER DISTANCE*

10 (.39 in)	**12.5 (.49 in)**	**15 (.59 in)**	**17.5 (.69 in)**	**20 (.78 in)**
Type of Buttons				
DM	DG	DG	DG	DG
			DKE	DA
			DSA	DZ
			DZ	DSA
Maximum No. of Stations (Modules)				
10	10	10	10	8
***No. of DPDT Contacts (Per Station)**				
2-8	2-8	2-8	2-8	2-8

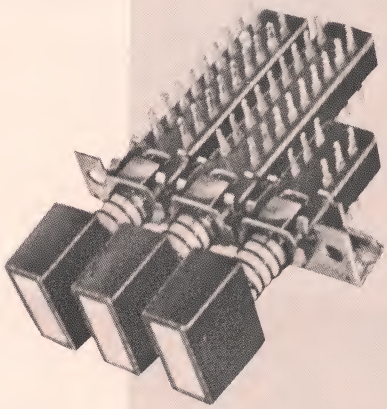
*If every other station is left blank without a switch obviously the spacing can be doubled.



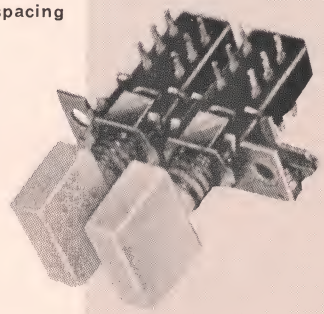
❺ 12,5 mm push-button aggregate:
10 x D 12,5 DG 2u
Center to center spacing is .49 in.



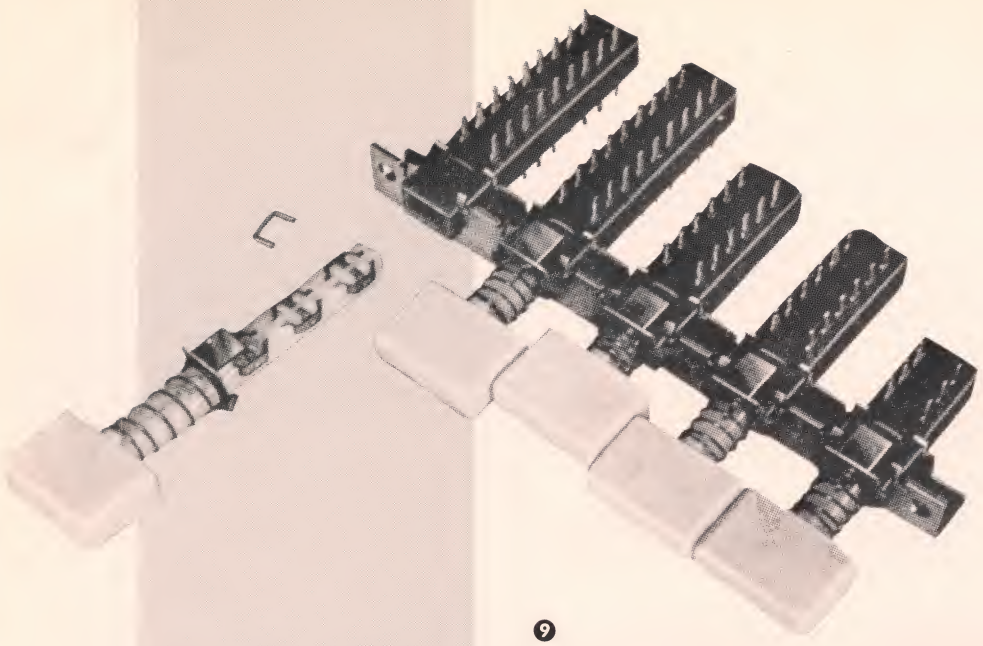
❻ 12,5 mm push-button aggregate:
5 x D 12,5 DG 6u
Center to center spacing is .49 in.



❼ 12,5 mm push button aggregate:
3 x D 12,5 DSA vertical 6u, push-button 3 2u EE
Center to Center spacing is .49 in.



❽ 12,5 mm push-button aggregate:
2 x D 12,5 DKE vertical 2u
Center to center spacing is .49 in.



⑨

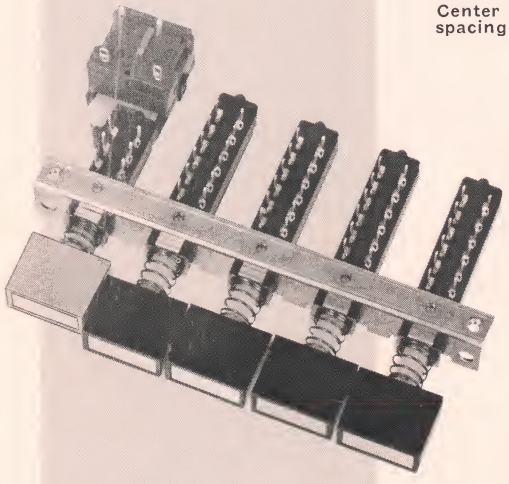
17,5 mm push-button aggregate:
5 x D 17,5 DKE, push-button 1 removed from front
Center to center spacing is .69 in.

GROUPED ASSEMBLY OF SWITCHES

The assembly of the individual modules on to a chassis may be described as an aggregate assembly. From the illustration Fig. 9 it will be noted that the various pole and throw units may be mounted on a single chassis and choice of mixed actions are available as desired.

The current present chassis have mounting distances spaced as noted by the type designation number namely 10, 12.5, 15, 17.5 or 20 MM opposite each illustration. The center to center spacing is noted in inches. We anticipate future availability in the 5/8", 3/4" and 7/8" spacing.

With double buttons of which so far only models of 20 mm and 35 mm width are available, two units can be combined on one button, which makes it possible to have up to 16 poles double throw per button.



⑩

17,5 mm push-button aggregate: with 2 Amp. power switch
5 x D 17,5 DSA
Center to center spacing is .69 in.

POWER SWITCH

The contacts of a switch module may be removed if desired and an extended plunger may be used to actuate a snap action switch. Types of snap action switches are available up to 15 AMPS. The snap action application is best suited to printed circuit boards. (See figure 11)

Type of Contact Tab

a) Combined soldering tab for printed circuits and wire connection.

b) Soldering tab for printed circuits on both sides. The contact connection during the switching operation is non-shorting.

Contact Material

Surfaces of fixed contacts as well as the contact bridges are silver-plated.

Types of Action Other Than Interlocked Momentary Action

G = subdivided into several groups of operations

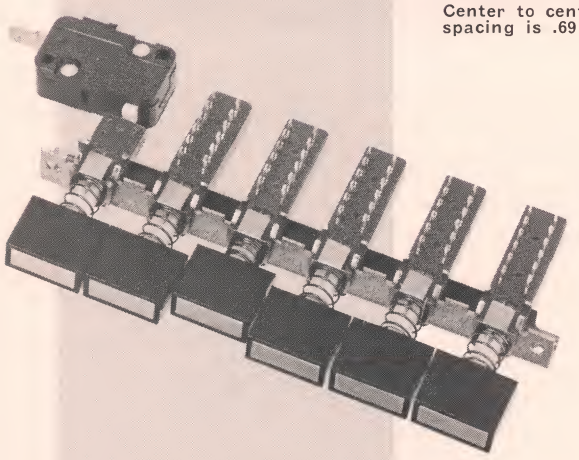
EE = Push-push; push to actuate and push to release

Technical Data

Max. current	1 A
Max. voltage	250V AC; (300 V. AC "E" series)
Max. rating	100 W
Contact resistance	5—7 m

max. key pressure with 2u approx. 17 oz.
max. key pressure with 4u approx. 28 oz.
max. key pressure with 6u approx. 32 oz.
max. key pressure with 8u approx. 36 oz.

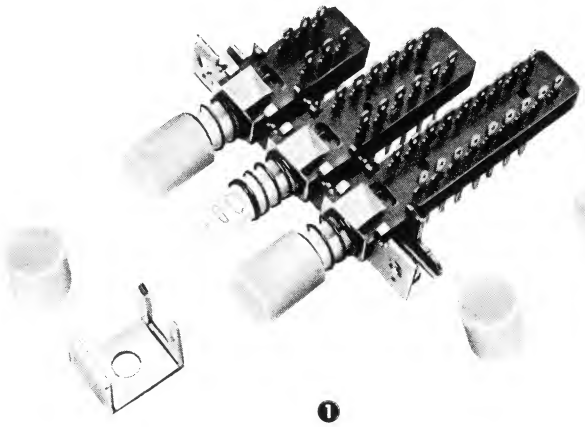
Capacitance between the contacts of a row: < 1,2pF
Capacitance between bridged contacts of adjacent rows: < 0,8pF



⑪

17,5 mm push-button aggregate. Position No. 1 has plunger to actuate a snap switch

Miniature Push Button Switches
Series D and E



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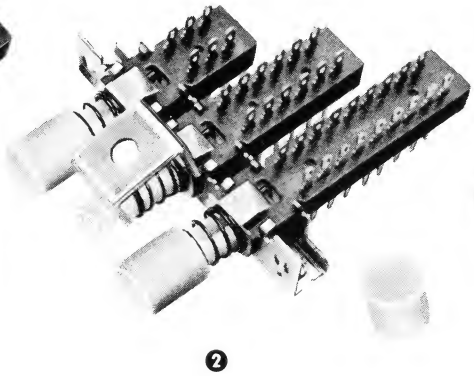

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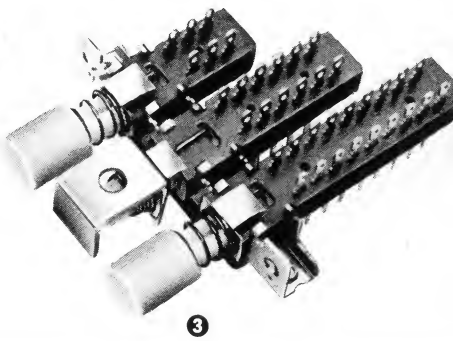


❸

Exchanging of slider part by using assembly clip

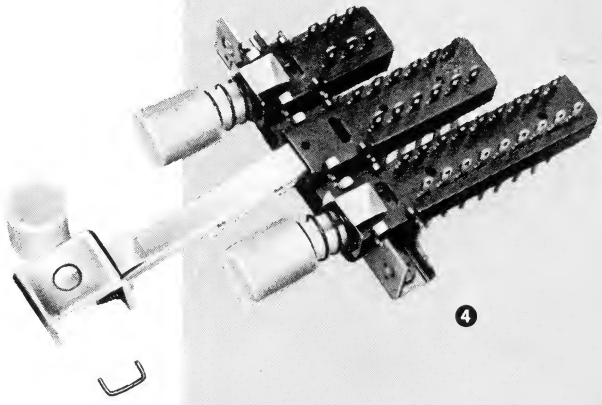
❶ Remove button

❷ Introduce forked end of assembly clip between front end of the casing and bronze spring.

❸ After compressing return spring rest assembly clip.

❹ Remove limit stop bracket and pull out push-bar towards the front.

❺ Push-bar with slider contacts accessible without restraint by return spring.



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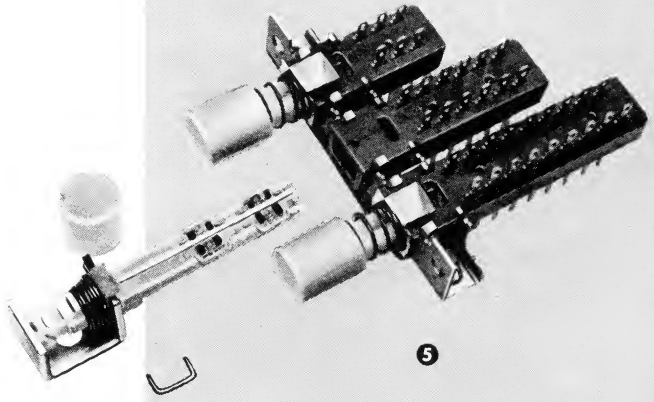

❺

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SCHADOW

PRICE LIST FOR SERIES "D" AND "E" SCHADOW PUSH BUTTON SWITCHES

ANY ONE OF THREE ACTIONS AVAILABLE AT THE SAME PRICE

A. MOMENTARY (O.A.)
B. PUSH-PUSH (E.E.)
C. LATCHED & INTERLOCKED

ACTIONS MAY BE GROUPED, ASSORTED, OR DIVIDED ON ONE FRAME
(6 PDT MAXIMUM IN PUSH-PUSH TYPE)
(INTERLOCKED ACTION ON 20MM TYPES LIMITED TO 8 STATION)

Quotations shown are for IM quantity purchases. For quantities less than 1,000 pieces use the adders as follows:

For 500-999 pieces multiply by 1.05
" 300-499 " " " 1.1
" 200-299 " " " 1.2
For 100-199 pieces multiply by 1.3
" 10- 99 " " " 2.0
" 1- 9 " " " 2.3

NO. OF STATIONS	DPDT	3 PDT*	4PDT	5PDT*	6PDT	7PDT*	8PDT
1	.21	.24	.27	.30	.33	.36	.39
2	.42	.48	.54	.60	.66	.72	.78
3	.63	.72	.81	.90	.99	1.08	1.17
4	.84	.96	1.08	1.20	1.32	1.44	1.56
5	1.05	1.20	1.35	1.50	1.65	1.80	1.95
6	1.26	1.44	1.62	180	1.98	2.16	2.34
7	1.47	1.68	1.89	2.00	2.21	2.42	2.73
8	1.68	1.92	2.16	2.40	2.64	2.88	3.12
9	1.89	2.16	2.43	2.70	2.97	3.24	3.51
10	2.10	2.40	2.70	3.00	3.30	3.60	3.90

(*) AVAILABLE IN QUANTITY ORDERS ONLY

For determining "KD" or "KE" Piano Switch prices add 15¢ per station for the 17.5MM chassis and 18¢ per station for the 20MM chassis.

BUTTON PRICES:

DM AND DG TYPES ADD 2¢ PER BUTTON
DSA " " 5¢ " "
ALL OTHER " " 3¢ " " EXCEPT SPECIAL TYPES

QUANTITY PRICES:

2,500 PIECES - DEDUCT 5%
5,000 " " 10%
10,00 " & UP " 15%

7-27-66
FORM 6208

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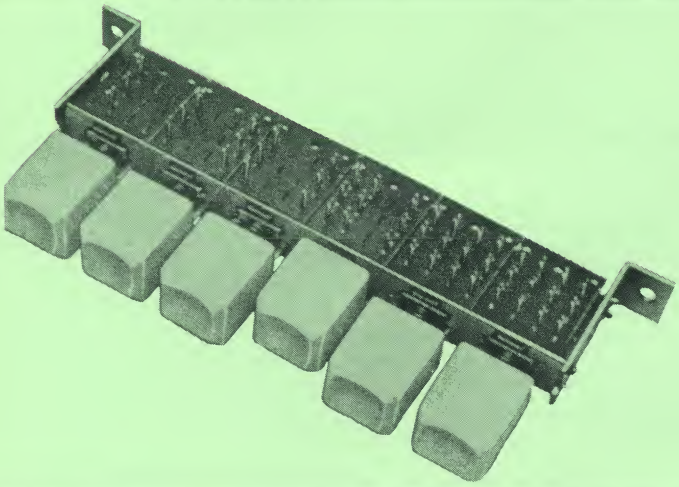
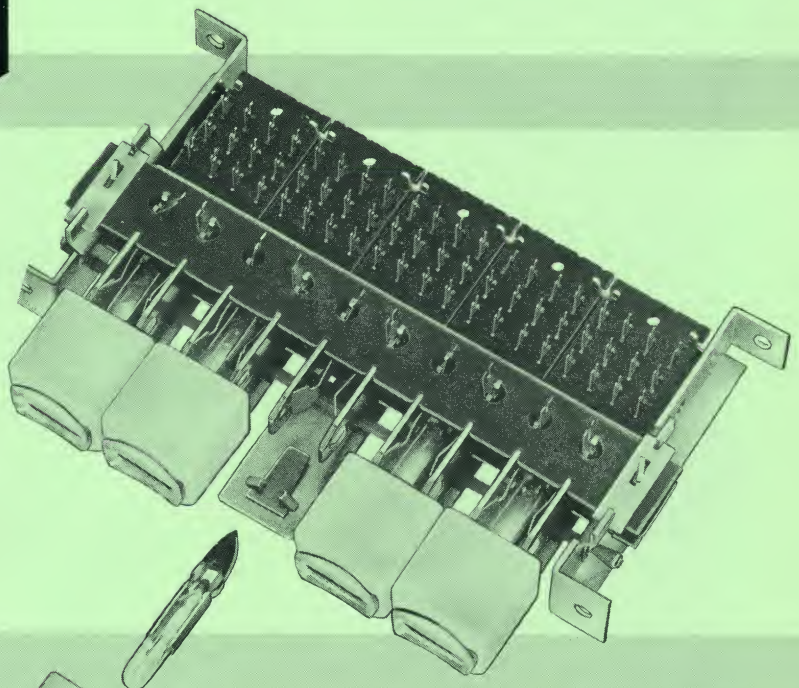
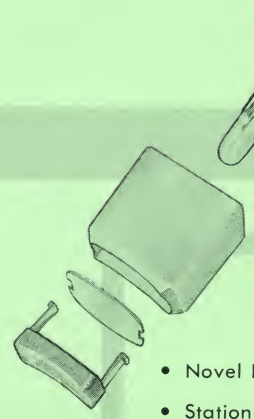
PUSH BUTTON SWITCHES

SERIES "M" AND "ML"







FEATURES

- Novel Design sliding contacts
- Stationary contact blades
- Unique design — positive action
- Small dimensions at 500V rating
- All standard operation actions
- Up to 4 PDT on a Phenolic wafer only .79 in. deep
- Up to 8 PDT on a Phenolic wafer only 1.54 in. deep
- 15 Stations maximum in one row. A maximum of 12 stations may be automatic and interlocked.
- Double deck arrangement available in up to 30 stations on a bank. A maximum of 24 stations may be interlocked.
- Modernistic buttons — Engraved lettering or numbers available
- Illuminated types available with Black or Ivory Button with detachable clear, Red or Green lenses, designed for easy installation of film legend.

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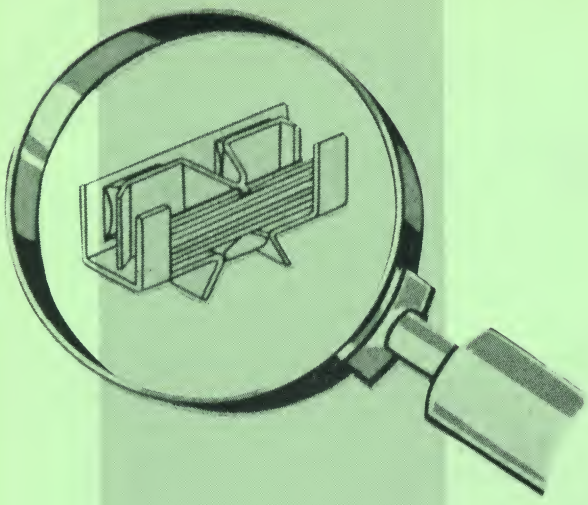
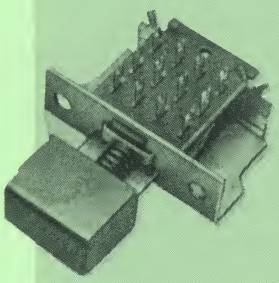
PRODUCTS OF RUDOLF SCHADOW KG

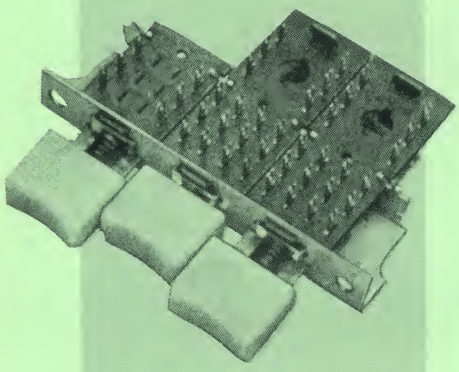
SCHADOW

Push-button Switch Type M

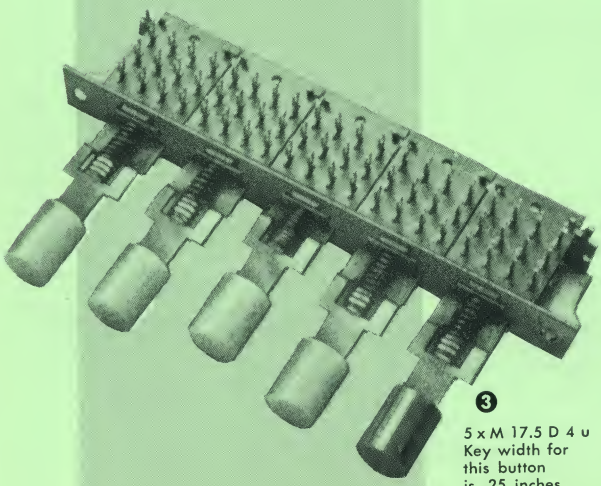




❶ 1 x M 17.5 Lo 4 u EE
The small letter "u" is abbreviated for Poles Double Throw



❷ 3 x M 17.5 K 4 u/2 u + hole for coil
Key 1 = 2 u EE



❸ 5 x M 17.5 D 4 u
Key width for this button is .25 inches

Application:
This miniature switch which is distinguished by its small overall height of .47 in. (without solder connections) and a depth of only .79 in. and 1.06 in. respectively including length of travel, can be used as wave-change switch in transistor sets, portable radio sets and car-radio sets, as tone control in radio and television sets, in taperecorders, measuring, testing and other instruments, and especially in telecommunication, for extension lines, two-way and multiple selector systems. A double deck arrangement (up to a total of 24 stations) is available where minimum space requirements exist.

Characteristics:
By using a novel and patented contact principle we are able to accommodate on one insulating strip only .79 in. wide up to four pole double throw switching. In spite of the restricted space available, it has been possible to concentrate all connections on one side, which avoids the necessity of wiring on the top and underside of the switches. On the opposite side of the contact arrangement the switch casings are flush and can be mounted directly on a chassis.

The new contact principle uses double-sided short and solid contact plates with a balanced steel spring which guarantees equal pressure at all contact points so that no provision has to be made for excess pressure; this provides contact making with extremely low contact resistance and self-inductance, and smooth movement of the keys.

In this design we have not abandoned the successful metal construction of the key-push rods but have aligned them so that the center line of the key coincides with that of the mounting holes. This makes it possible to rivet together pairs of switches matching at their bases, forming a double switch. A patented arrangement permits proper coupling of the two mechanisms when reciprocal operation in two decks is required (Figure 6). On the other hand, both rows can function in EE or combined operation. The extension of the wide key underneath the remaining key board is useful and can serve e.g. as a "press to talk" key, central release key or unlocking key. In order to facilitate the use of Type M for portable and car-radio sets, a special switch plate with holes for coils can be provided as can be seen in Figures 2 and 7.

By request, the switches can be made with spikes for printed circuits.

Provision is also made for fitting Bowden R.F. cables and power switches, as well as various lengths of keys and different methods of mountings.

Push-button Switch Type M

Type	17.5	35 (every other key removed)
Center To Center Dist.	.69 in.	1.38 in.
Max No. of Stations Interlocked	1-12	1-6

Max of 15 with o.A., EE or combined group actions

Number of Contacts:
Standard design provides double pole double throw (U) operation available from SPDT to 8 Poles Double throw.

Single pole to eight pole single throw operation is available in either push to make or push to break operation.

Types of Contacts:
a) standard solder lug .2 inches long, protected against short circuit
b) spikes for printed circuits, protected against short circuit
c) shorting-type, solder lug .2 inches long
d) non-shorting type solder lug .2 inches long
e) leading and lagging contact making, solder lug .2 inches long

Contact Material:
a) surface of moving and fixed contacts silver-plated
b) surface of fixed contacts silver-plated, moving contact plates silver and rhodium-plated
c) surface of fixed contacts silver and palladium-plated, moving contact plates silver and rhodium-plated

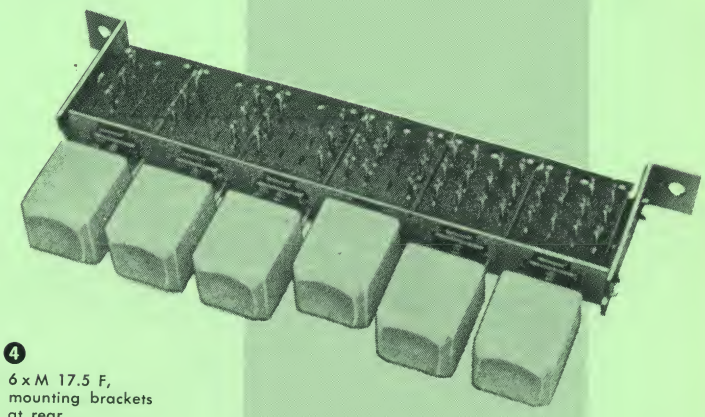
Insulating Material:
a) Phenolic class III
b) Phenolic class IV

Types Designation and Explanation:

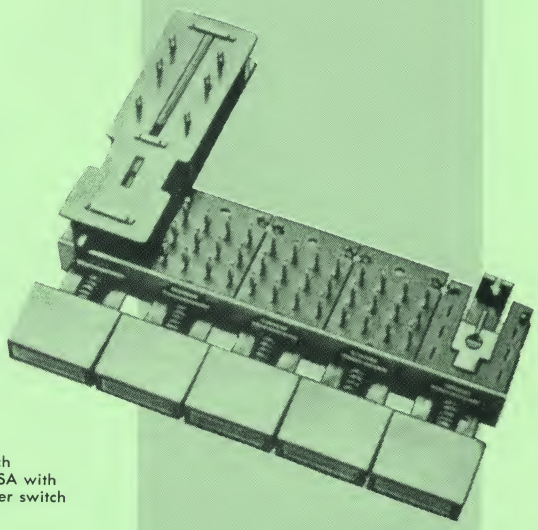
o.A.	=	without automatic mechanism (Momentary action)
G	=	subdivision into several groups of switches
MM	=	2-deck arrangement
+E	=	with ganged operation of 2 decks
EE	=	individual locking and release by repeated pressing (Push-Push)
EE+A	=	Individual locking or multiple locking (Push-Push) with a master release button. All buttons may be operated as momentary action as long as the release button is depressed or if the release bar is actuated by a solenoid.
N_1N_2	=	Power switch, single-pole or double-pole
Bz	=	Bowden R.F. cable - operating key

Technical Data:

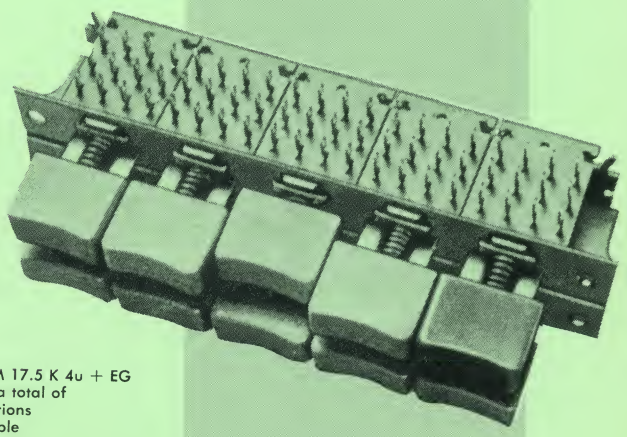
max. current:	IA
max. voltage:	500 VAC
max. rating:	100 W
contact resistance:	3-6 m Ω



❹ 6 x M 17.5 F, mounting brackets at rear



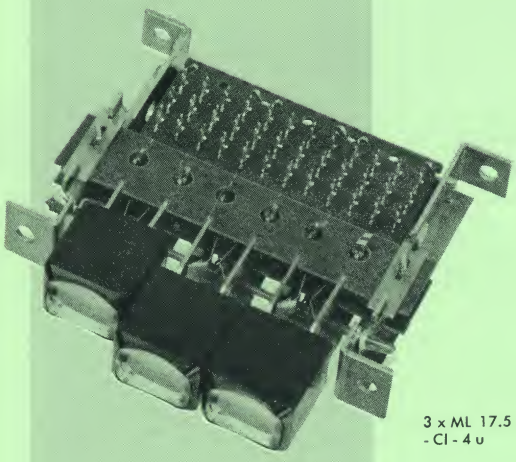
❺ Special Switch 6 x M 17.5-DSA with 2 Amp. power switch



❻ 5 x MM 17.5 K 4u + EG Up to a total of 24 stations available

Illuminated Key-Switch Type ML

based on novel contact principle



3 x ML 17.5 - Q /lv. - Cl - 4 u

Application:
Telecommunication systems with signal indication, two-way and multiple selector systems, medical instruments, etc.

Characteristics:
In principle, the switches correspond to Type M with regard to the arrangement of contacts and the scope of detailed design. Their construction is the same as that of our other illuminated keys, i. e. an illumination bracket is fitted between the contact carrier proper and the key-caps. The bracket has lateral screens to avoid stray light. The lampholders are suitable for miniature telephone jack lamps made by TAUNUSLICHT. As in Type M the centre distance of keys is 17.5 mm. The key-caps can be easily removed and replaced since they snap into a ball catch. The bracket together with the flat design and the small mounting depth of Type M gives an extremely small illuminated key-switch which can easily be accommodated in restricted space. Suitable key-caps for the illuminated switches are available in Form B with removable square lenses, Button J and the new design Q. Button Q has a concave, removable, transparent window corresponding to the finger trough of Button Q. At its sides this transparent plastic inset has spring retaining arms which are automatically engaged when pressed into the button and prevent the window from falling out. A labelled, possibly coloured transparent slab can be placed under the window. The lenses of Button Q are available in red, green, yellow and clear. Replacement is possible after removing the cap if the retaining arms are lifted from their groove with tweezers or a similar small object.

Telephone-miniature lamps for illuminated key-switches with T 5.5 base

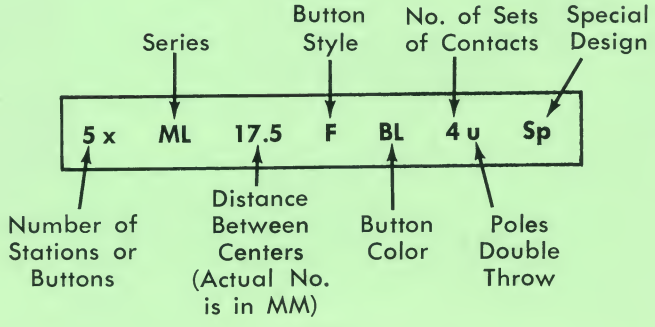
(Manufactured by: TAUNUSLICHT)

6	Volts,	20, 40 and 200	Ma.
12	"	20, 50 and 100	Ma.
18	"	25,	"
24	"	20, 50	"
30	"	20,	"
36	"	20	"
48	"	20, 30	"
60	"	20	"

The mechanical and electrical properties as well the possible arrangements correspond to those of Type M and can be found there.

Dimensional drawings on request.

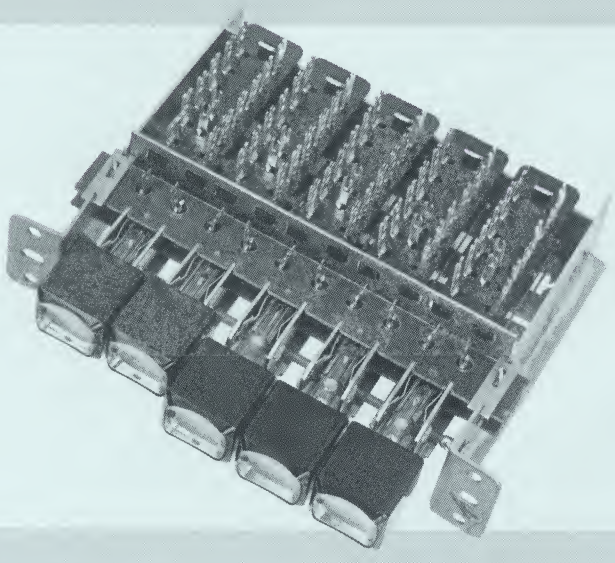
SWITCH CODE INFORMATION
(Example)

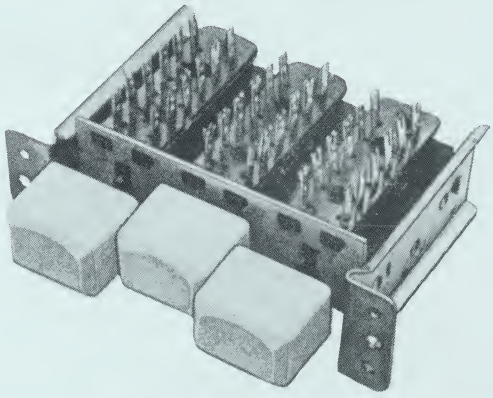


SCHADOW

Deluxe PUSH BUTTON SWITCHES

SERIES "UX" AND "UXL"





FEATURES

- **Very high quality switches at low cost**
- **Illuminated types**
- **Non-Illuminated types**
- **Three choices of key centers**
- **Broad choice of functions:-**

Interlocked automatic, push-push and momentary action, single units or multiple units up to 20 stations.

Assorted functions on one switch frame.

Central release of accumulated push-push action.

"No two buttons down at a time" "Blocking action"

INTERNATIONAL ELECTRO EXCHANGE CORP

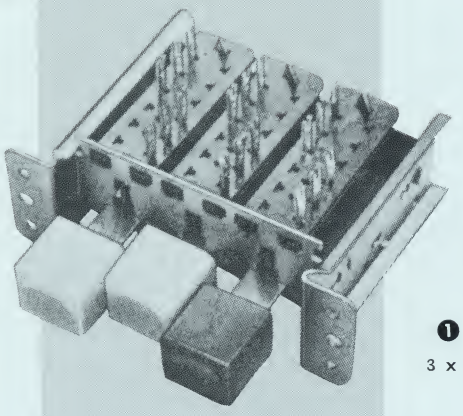
INTERNATIONAL ELECTRO EXCHANGE CORPORATION

6529 CAMBRIDGE STREET — MINNEAPOLIS, MINNESOTA 55426
TELEPHONE: (612) 929-9611

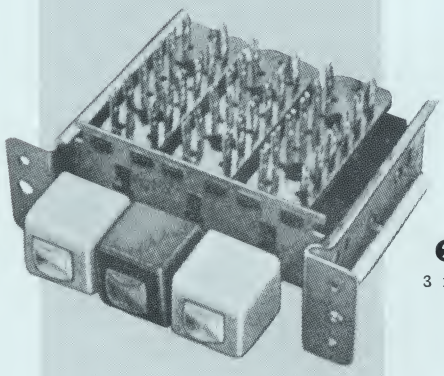
PRODUCTS OF RUDOLF SCHADOW KG

SCHADOW

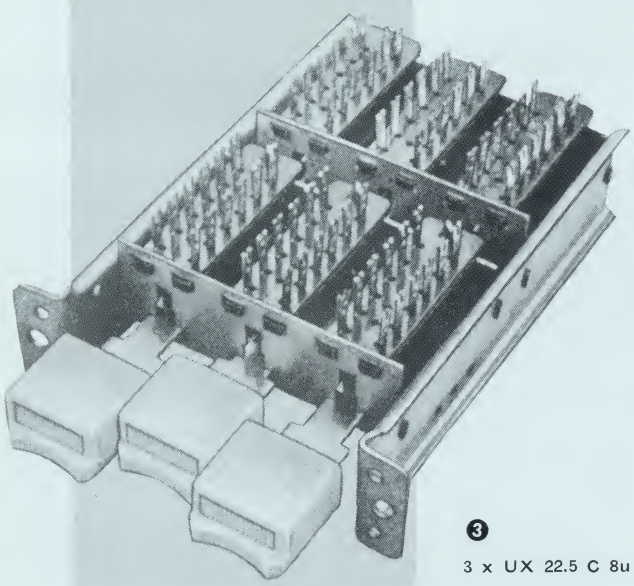
Push-Button Switches Series UX



❶ 3 x UX 17.5 J 2u staggered



❷ 3 x UX 17.5 B 4u



❸ 3 x UX 22.5 C 8u

APPLICATION:

Universal switch highly recommended whenever unusually high reliability is desired, intended for measuring instruments, taperecorders, telecommunication systems, control purposes, commercial equipment, etc.

DESCRIPTION:

Sturdy switch with 3 different key widths and a large number of standard button shapes.

In order to increase the number of change-over circuits per key, 2 switch units can be arranged in tandem in the form of cradles (figure 3). Each cradle can be equipped with a maximum number of 4 change-over circuits plus 1 SPST operating contact per key (figure 5, right-hand key). The switch plates can be easily exchanged individually. An arrangement of power switches is possible (figure 5). The locking-in of the contact blades is spring loaded so that the operating and resting position of the contacts is always well defined and independent of the operating pressure applied from outside.

In the Series "UX" a maximum number of 12 keys can be mechanically locked together so that only one key can be latched at any time.

By displacing the locking cams one can also arrange that the locking must first be cancelled by a release key before a new button can be pressed.

Separate latching of all keys (EE) can also be supplied with a central release.

The contact change-over can also be effected by contact blades of different length; when shortened blades are used the change-over is non-shorting. By using both blade lengths the sequence of contact making can be selected.

Distance between Key Centers	Type	17.5 .69 in	22.5 .89 in	35 1.38 in
Button Shapes:		SA AS LO K J Z Q B X	H C S	LOLO AT KK NN
Number of Stations	1—20	1—15	1—12	1—7

New designs and colors are constantly being introduced. Write us for further information if you do not find what you need on this list.

SCHADOW

Push-Button Switches Series UX

NUMBER OF CONTACTS:

1a—5a per compartment (a = Push to Make)
1r—4r per compartment (r = Push to Break)
1u—4u per compartment (u = Double-Throw)

PARTICULARS OF CONTACTS:

Solder tabs .35 in. long.
a) Shorting type
b) Non-shorting type

CONTACT MATERIAL:

a) Surfaces of stationary and moving contacts silver plated.
b) Stationary contacts silver plated, moving blades silver and rhodium plated.

INSULATION MATERIAL:

Molded plastic, type 31.5, or special molded plastics.

SPECIAL DESIGNS:

o. A. = non-automatic - Momentary action
G = Division into several groups of switches
EE = Each switch is latched separately and released by pressing again. With and without central release (+Z)
Sp = Lock-out (Blocking) feature prevents actuation of more than one button at a time
N_1/N_2 = Power switch, single-pole and double-pole respectively (if all keys are to be equipped with power switches, this is only possible with single-pole switches for Type 17.5 .69 in key center and with double pole switches for Type 35 1.38 in key centers)

TECHNICAL DATA:

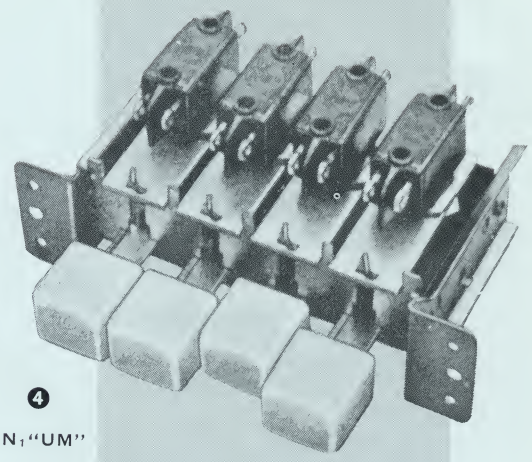
Max. current loading: 1 A
Max. voltage: 1000 VAC
For 1500V and 3000V types write us for information and quotations on "UR" types.
Max. rating: 100 W
Contact resistance: 3—4 m Ω

DIMENSIONAL DRAWINGS:

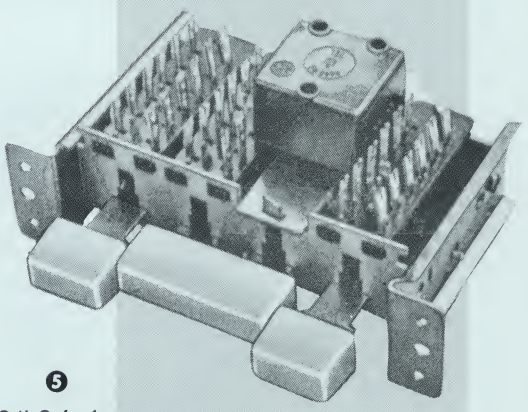
On request

Switch Code: (Example)

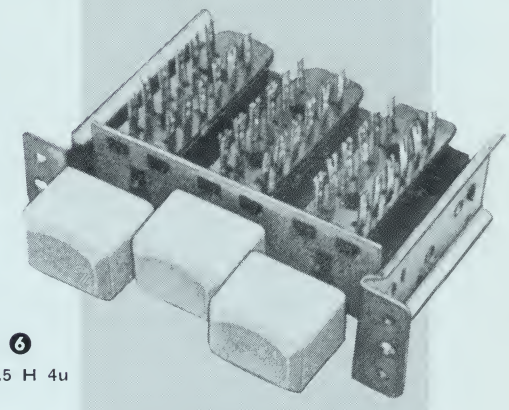
Series	Knob Style		Number of contacts	Type of contacts
5 x U	22,5 F	BLACK	4 u	Sp
Number of knobs	Distance between centers	Color of knobs		Special design



❹
4 x UX 17.5 J N_1 "UM"

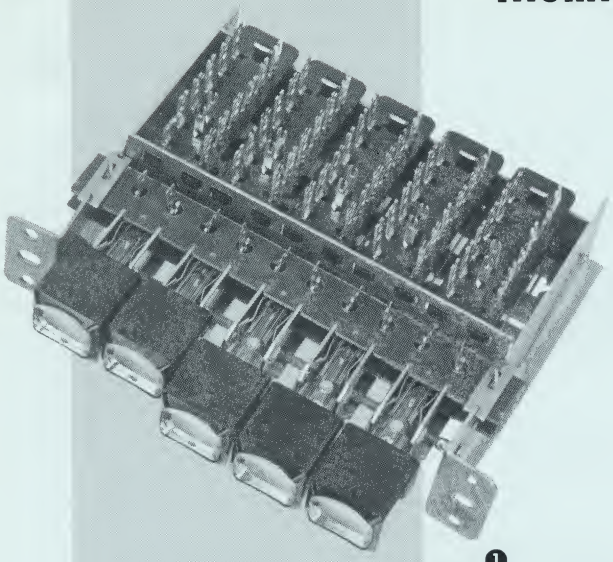


❺
4 x UX 17.5 LO/LOLO/LO 4u 1a
(key 3: N_2 "ON")

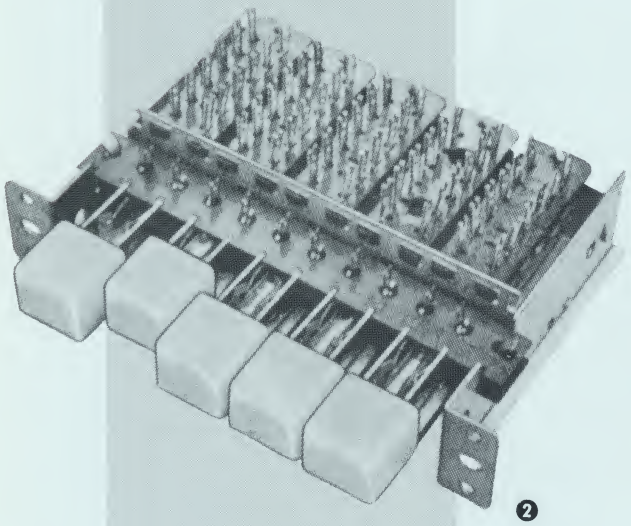


❻
3 x UX 22.5 H 4u

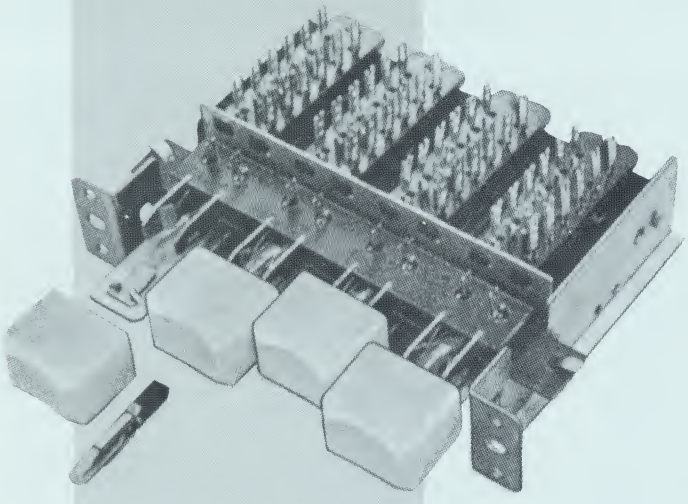
Illuminated Push-Button Switch Series UXL



❶ 5 x UXL-17.5-Q/BL-CL 4u & IA-EE



❷ 5 x UXL 17.5 J 4u



❸ 4 x UXL 22.5 4u 1a

APPLICATION:
Telecommunication equipment with signal indicator, control decks, studio equipment, single and full duplex systems, medical apparatus, etc.

DESCRIPTION:
The switches are fundamentally the same as Series UX except that they are equipped with a light fitting. For this purpose the bars are extended and a special angle bracket is used for mounting.

The light fitting has lateral screens to prevent stray light from illuminating neighboring keys. The lamp holders are suitable for the "Miniature-telephone-jack lamp" made by TAUNUSLICHT and guarantees good contact and firm mechanical seating of the bulbs; they can be supplied in banks of any length with two different key distances of .69 in. and .89 in. The lamp holder terminals are fixed on the same side as the contact connections of the switch, which simplifies wiring in many cases. The lamp holder terminals are brought out separately and, if the key is to light up in the latched position, they must be connected to one of the change-over or operating contacts belonging to the particular key.

The key buttons have the shape of caps which are pushed on the operating bars. On each bar is a spring-loaded ball engaging in a hole inside the button. On push button keys the lamps can be taken out towards the front by means of a lamp extractor after removing the button; the lamp extractor consists of a thick flexible insulating tube having an inner diameter of .158 to .177 in.

BUTTONS:

Button Q — the same Button as the J but with removable plastic lenses. (See figure 1)

Button B — for the same Series as Button J with removable plastic lenses, clear-curved, clear-flat, red-curved, red-flat, green-curved, green-flat; designation labels can be placed under the lenses. (See figure 2 in "UX" Literature)

All other technical data can be taken from the various information sheets of the series without illumination.

DIMENSIONAL DRAWINGS:
On request.

Telephone-miniature lamps for illuminated key-switches with T5.5 base.

(Manufactured by: TAUNUSLICHT)

6	Volts,	20,	40	and	200	Ma.
12	" ,	20,	50	and	100	Ma.
18	" ,	25				"
24	" ,	20,	50			"
30	" ,	20				"
36	" ,	20				"
48	" ,	20,	30			"
60	" ,	20				"

SCHADOW

PRICE LIST ON SCHADOW TYPE "M" AND "UX" SERIES PUSH BUTTON SWITCHES

All switches are priced complete with your choice of buttons and lenses. For requirements of more then one set of contacts (SPDT) refer to adder information below. Contacts are available with soldering lug or printed circuit spikes. The illuminated types are priced without lamps. Refer to our lamp data and price sheet for ratings and quantity prices on Type T5.5.

Quotations shown are for 1M quantity purchases. For quantities less than 1,000 pieces use the adders as follows:

For 500-999 pieces multiply by 1.05
" 300-499 " " " 1.1
" 200-299 " " " 1.2
For 100-199 pieces multiply by 1.3
" 10- 99 " " " 2.0
" 1- 9 " " " 2.3

NO. OF STATIONS	NON ILLUMINATED "M" TYPE	ILLUMINATED "ML" TYPE	NON ILLUMINATED "UX" TYPE	ILLUMINATED "UXL" TYPE
1	49¢	84¢	63¢	88¢
2	80¢	$1.49	$1.11	$1.60
3	$1.08	2.08	1.62	2.37
4	1.34	2.70	2.12	3.11
5	1.65	3.31	2.63	3.86
6	1.92	3.92	3.14	4.62
7	2.21	4.55	3.65	5.38
8	2.49	5.15	4.16	6.14
9	2.79	5.79	4.69	6.90
10	3.08	6.38	5.19	7.66
11	3.40	7.06	5.71	8.42
12	3.71*	7.71*	6.23	9.18
13	4.02	8.36	6.75	9.94
14	4.33	9.01	7.27	10.70
15	4.64	9.66	7.79	11.46
16			8.31	12.22
For Each Additional SPDT Add	3¢ Per Pole Per Station **	3¢ Per Pole Per Station**	3¢ Per Pole Per Station**	3¢ Per Pole Per Station**
For Push-Push Action Add			7¢ Per Station	7¢ Per Station
For Blocking Action Add			20¢ Per Station	20¢ Per Station

(*) Maximum number of stations all interlocked is 12.
(**) This applies up to 4U. For 5U to 8U write us for quotation.
For Quantities above 1M pieces write us for quotations.
Prices are F.O.B. Minneapolis, Minnesota. Terms are Net 30 Days.
This price sheet supercedes previous price sheets.

INTERNATIONAL ELECTRO EXCHANGE
CORPORATION
6529 CAMBRIDGE STREET — MINNEAPOLIS, MINNESOTA 55426
TELEPHONE: (612) 929-9611

9-20-66
Form 6608A